

WHAT IS CLAIMED IS:

1. A differential gearing unit for vehicle including an internal gear, a sun gear disposed inside the internal gear on a concentric circle therewith, planet gears disposed between the internal gear and the sun gear in meshing engagement therewith for transmitting torques, and a planetary carrier for carrying the planet gears so as to be capable of revolving around an axis of the sun gear and on their own axes, the internal gear being molded by a plastic working, the internal gear including an internal gear teeth formed on the inner peripheral surface and a spline groove formed on the outer peripheral surface which are axially displaced from each other.
2. A differential gearing unit for vehicle according to Claim 1 in which the spline groove on the outer peripheral surface of the internal gear is effective to transmit an input and/or an output.
3. A differential gearing unit for vehicle according to Claim 1 in which the sun gear is disposed inside the planetary carrier so as to be axially moveable.
4. A differential gearing unit for vehicle according to one of Claims 1 to 3 in which a drive from an engine is input to one of the internal gear, the sun gear and the planetary carrier while the remaining two are connected to one or the other of the front and rear wheel of a four-wheel driven vehicle.